DERWENT-ACC-NO: 1998-463079
DERWENT-WEEK: 199840


TITLE: Curable sticking sheet for jointing members - comprises first and second curable sticking layer containing sticking polymer, epoxy! compound, and compound inducing opening reaction of the epoxy, laminated to each other and cured by light irradiation

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PRIORITY-DATA: 1997JP-0001222 (January 8, 1997)

PATENT-FAMILY:

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| JP 10195393 A | July 28, 1998 | N/A | 014 | C09J 007/02 |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
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| JP10195393A | N/A | 1997JP-0001222 | January 8, 1997 |

INT-CL (IPC): C09J005/04; C09J007/02 ; C09J133/06 ; C09J163/00 ; C09J201/00

ABSTRACTED-PUB-NO: JP10195393A

BASIC-ABSTRACT: A curable sticking sheet comprises a first and second curable sticking layer contg. a sticking polymer, a cpd. having epoxy and a cpd. inducing opening reaction of the epoxy which are laminated each other and cured by irradiating the light. The first curable sticking sheet positioned at the side irradiated by the light shows curing rate VA of 0.01-0.2 (hr-1) of formula (I) wherein G(0) : dynamic share rate storage modulus at temp. range of 0-50

deg. C and frequency of 10 Hz before light irradiation, G(24) : that 24 h after the light irradiation and the second curable sticking sheet has a curing rate VB of 1.1-5 times of VA.

Also claimed are : (a) : the sticking polymer in the first and second sticking sheets is an acrylic polymer and the cpd. inducing opening of the epoxy is an onium cpd. (b) : the cpd. inducing opening of the epoxy is contained in an amount of 0.1-1.5 pts.wt. based on 100 pts. wt. of the total of the sticking polymer and the cpd. contg. epoxy in the first sheet and the cpd. inducing opening of the epoxy is contained in an amount of 0.5-6.0 pts.wt. based on 100 pts. wt. of the total of the sticking polymer and the cpd. contg. epoxy in the second sheet. (c) : the cpd. inducing opening of the epoxy in the first layer has an activity so that the conversion of the epoxy may be 0.1-10.0 % and the cpd. inducing opening of the epoxy in the second layer has an activity so that the conversion of the epoxy may be 1.0-50 % and also the conversion in the second sheet should be larger than that in the first layer. (d) : the cpd. contg. epoxy in the second sheet is at least alicyclic epoxy cpd. (e) : the first sheet further contains a basic cpd. or nucleophilic cpd. (f) : the second sheet further contains active hydrogen contg. cpd. or a photosensit iser. (g) : a method for jointing a member comprises irradiating the light to the sheets after adhering the second sheet to an adherend and on adhering the first sheet to another adherend.

USE - The sheet is especially suitably used for adhering steel sheet of vehicles.

ADVANTAGE - The sheet has considerable strong initial sticking power at usual

state and is readily cured after adhered to make firm adhesion.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
CURE STICK SHEET JOINT MEMBER COMPRISE FIRST SECOND CURE STICK LAYER CONTAIN
STICK POLYMER POLYEPOXIDE COMPOUND COMPOUND INDUCE OPEN REACT EPOXY LAMINATE
CURE LIGHT IRRADIATE

DERWENT-CLASS: A21 A81 G03 M13

CPI-CODES: A05-A01E3; A08-D01; A12-A01A; A12-A05C; G03-B02E2; G03-B04; M13-H03;

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